

Title (en)

METAL CORD-RUBBER COMPOSITE, BELT OR CARCASS FOR TIRE USING SAME, AND TIRE

Title (de)

METALLKORD-KAUTSCHUK-VERBUND, GURT ODER KARKASSE FÜR REIFEN UND REIFEN

Title (fr)

COMPOSITE CÂBLÉ MÉTALLIQUE-CAOUTCHOUC, CEINTURE OU CARCASSE POUR PNEU L'UTILISANT, ET PNEU

Publication

EP 3808895 A4 20220323 (EN)

Application

EP 19820049 A 20190614

Priority

- JP 2018113671 A 20180614
- JP 2019023614 W 20190614

Abstract (en)

[origin: EP3808895A1] Provided is a metal cord-rubber composite that is formed by coating a metal cord with a rubber composition, an N atom, a Cu atom, and a Zn atom being present on a metal cord surface, the metal cord surface having 2% by atom or more and 60% by atom or less of N atoms and a Cu/Zn ratio of 1 or greater and 4 or less, the rubber composition containing silica having a CTAB specific surface area of 170 m²/g or greater and carbon black, a total blended amount of the silica and the carbon black being 35 parts by mass to 100 parts by mass, and a blending ratio of the silica based on the total blended amount of the silica and the carbon black being 0.05 or greater and 0.5 or less. The metal cord-rubber composite experiences no reduction in initial adhesiveness and has low loss properties. Also provided is a component or member for a tyre using the metal cord-rubber composite.

IPC 8 full level

D07B 1/16 (2006.01); **B60C 1/00** (2006.01); **B60C 9/00** (2006.01); **C08K 3/04** (2006.01); **C08K 3/36** (2006.01); **C08K 5/3415** (2006.01); **C08L 7/00** (2006.01); **C08L 21/00** (2006.01); **D07B 1/06** (2006.01)

CPC (source: EP)

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C-Set (source: EP)

1. **D07B 2205/3089** + **D07B 2801/18**
2. **D07B 2205/3028** + **D07B 2801/10**
3. **D07B 2205/3078** + **D07B 2801/10**
4. **D07B 2205/3067** + **D07B 2801/10**
5. **D07B 2205/3089** + **D07B 2801/10**
6. **D07B 2205/306** + **D07B 2801/10**
7. **D07B 2205/3085** + **D07B 2801/10**
8. **D07B 2205/3021** + **D07B 2801/10**
9. **D07B 2205/3071** + **D07B 2801/10**
10. **C08L 7/00** + **C08K 3/04** + **C08K 3/36** + **C08L 9/00**
11. **D07B 2205/3092** + **D07B 2801/10**

Citation (search report)

- [Y] US 4169112 A 19790925 - ELMER OTTO C, et al
- [Y] EP 1205315 A2 20020515 - BRIDGESTONE CORP [JP]
- [Y] DATABASE WPI Week 201711, Derwent World Patents Index; AN 2017-06214G, XP002805573
- [Y] DATABASE WPI Week 200868, Derwent World Patents Index; AN 2008-L61203, XP002805574
- See also references of WO 2019240252A1

Cited by

US2021388143A1; US11718699B2; US11718700B2

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